http://www.cas.org/support/stngen/stndoc/properties.html

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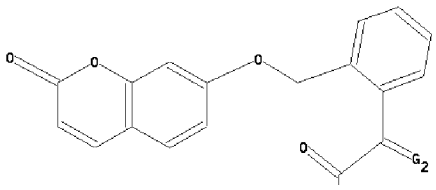

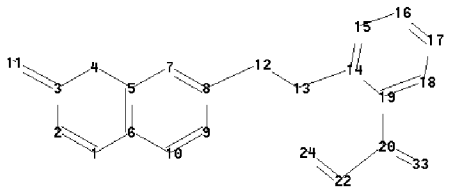

chain nodes :
11 12 13 20 22 23 24 25 26 27 28 29 33
ring nodes :
1 2 3 4 5 6 7 8 9 10 14 15 16 17 18 19
chain bonds :
3-11 8-12 12-13 13-14 19-20 20-22 20-33 22-23 22-24 25-26 25-27 28-29

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17
17-18 18-19
exact/norm bonds :
1-2 1-6 2-3 3-4 3-11 4-5 8-12 12-13 20-33 22-23 22-24 25-27 28-29
exact bonds :
13-14 19-20 20-22 25-26
normalized bonds :
5-6 5-7 6-10 7-8 8-9 9-10 14-15 14-19 15-16 16-17 17-18 18-19

G1:O,S,N

G2:[*1],[*2]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 33:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS

```
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1 sss full
FULL SEARCH INITIATED 16:58:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       65 TO ITERATE

100.0% PROCESSED       65 ITERATIONS                                61 ANSWERS
SEARCH TIME: 00.00.01

L2           61 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     178.82     179.03

FILE 'CAPLUS' ENTERED AT 16:58:56 ON 21 FEB 2008
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FILE LAST UPDATED: 20 Feb 2008  (20080220/ED)

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http://www.cas.org/infopolicy.html

=> s l2
L3           3 L2

=> d his

     (FILE 'HOME' ENTERED AT 16:57:42 ON 21 FEB 2008)

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L1              STRUCTURE UPLOADED
L2           61 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 16:58:56 ON 21 FEB 2008
L3            3 S L2
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=> s l2
L4 3 L2

=> d l4 ibib abs tot

L4 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:1253707 HCAPLUS Full-text
DOCUMENT NUMBER: 146:81767
TITLE: Preparation of coumarin derivatives for preventing diseases and pests in crop plants
INVENTOR(S): Liu, Changling; Li, Miao; Guan, Aiying; Zhang, Hong; Li, Zhinian; Ye, Tianjiang
PATENT ASSIGNEE(S): Shenyang Research Institute of Chemical Industry, China, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1869032	A	20061129	CN 2005-10046514	20050526

PRIORITY APPLN. INFO.: CN 2005-10046514 20050526
OTHER SOURCE(S): CASREACT 146:81767; MARPAT 146:81767
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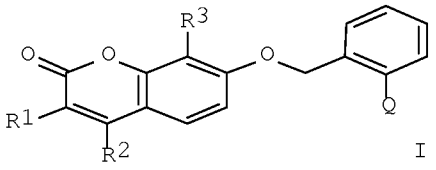

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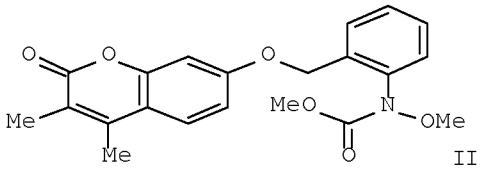

II

AB The title coumarin compds. I [wherein Q = MeO-CO-C(-)=CHOMe, MeO-CO-C(-)=NOMe, MeNH-CO-C(-)=NOMe, or MeO-CO-N(-)OMe; R1 = H or Cl; R2 = substituted pyridyl; or R1+R2 = (CH2)3 or (CH2)4; and R3 = H, halogen, CN, nitro, alkyl, alkenyl, alkynyl, haloalkyl, alkoxy, etc.] and stereoisomers thereof are prepared as pesticides. For example, the patent disclosed the preparation of the compound II. The coumarin compds. have excellent bactericidal activity and systemic activity, and can be used to prevent diseases in crop plants such as Plasmopara viticola, Thanatephorus cucumeris, Pyricularia grisea, Alternaria solani, Phytophthora infestans, Erysiphe cichoracearum, Pseudoperonospora cubensis, Botrytis cinerea, Puccinia, Mycosphaerella tassiana, and Erysiphe graminis. Meanwhile, the coumarin compds. have excellent pesticidal activity, and can be used to prevent pests from crop plants, such as Mythimna separata, Plutella xylostella, Myzus persicae, Tetranychus cinnabarinus, Tetranychus urticae, Henosepilachna sparse, Tetranychus truncates, and Culex pipieus.

L4 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:429410 HCAPLUS Full-text
DOCUMENT NUMBER: 142:430138
TITLE: Preparation of benzopyrone derivatives as pesticides

and bactericides

INVENTOR(S): Liu, Changling; Guan, Aiying; Zhang, Hong; Zhang, Mingxing; Li, Zhengming; Li, Miao; Li, Lin; Li, Zhinian; Hou, Chunqing

PATENT ASSIGNEE(S): Shenyang Research Institute of Chemical Industry, Peop. Rep. China

SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044813	A1	20050519	WO 2004-CN1255	20041104
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1616448	A	20050518	CN 2003-10105079	20031111
EP 1683792	A1	20060726	EP 2004-797287	20041104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1823052	A	20060823	CN 2004-80020125	20041104
JP 2007510674	T	20070426	JP 2006-538636	20041104
US 2007037876	A1	20070215	US 2006-573529	20060324

PRIORITY APPLN. INFO.: CN 2003-10105079 A 20031111
WO 2004-CN1255 W 20041104

OTHER SOURCE(S): MARPAT 142:430138

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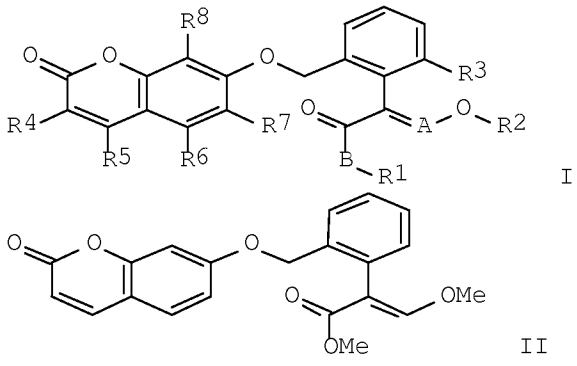


I

II

AB The title compds. I [wherein A = CH or N; B = O, S, NH, or alkylamino; R1 and R2 = independently H, alkyl, or haloalkyl; R3 = H, alkyl, haloalkyl, or alkoxy; R4-R8 = independently H, halo, CN, etc.] or isomers thereof are prepared as pesticides and/or bactericides. For example, the compound II was

prepared from 7-hydroxybenzopyran-2-one and (E)-2-[2-(bromomethyl)phenyl]-3-methoxypropenoic acid Me ester (76.5%). I are suitable for prevention or cure of the following plant diseases: grape downy mildew, rice blast, tomato early blight, tomato late blight, wheat rust disease, wheat leaf spot, wheat powdery mildew, cucumber powdery mildew, cucumber downy mildew, cucumber botrytis, and so on. For example, II showed 100% effect on cucumber powdery mildew at 200 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:59429 HCAPLUS Full-text

DOCUMENT NUMBER: 118:59429

TITLE: Preparation of (alkoxyimino)benzeneacetamide derivatives as agrochemical fungicides

INVENTOR(S): Hayase, Yoshio; Takenaka, Hideyuki; Masuko, Michio

PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

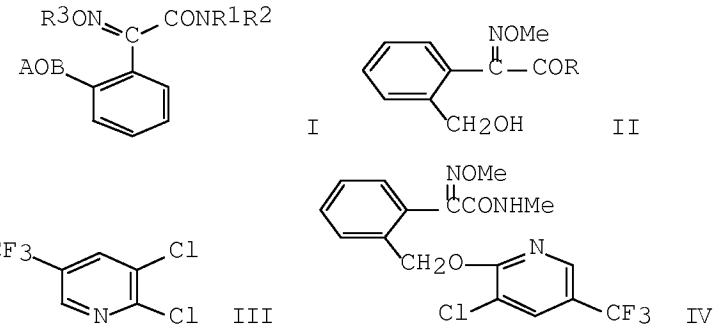
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04182461	A	19920630	JP 1990-312519	19901116
JP 2897789	B2	19990531		

PRIORITY APPLN. INFO.: JP 1990-312519 19901116

OTHER SOURCE(S): MARPAT 118:59429

GI



AB The title compds. [I; R1, R2 = H, alkyl; R3 = alkyl; A = mono- or bicyclic aryl or heteroaryl containing ≥1 alkyl, alkenyl, alkynyl, alkoxy, halo, haloalkyl, etc.; B = CH2, bond] are prepared Stirring 1.5 g ester II (R = MeO) and a solution of MeNH2 in MeOH at room temperature gave 1.05 g amide II (R = MeNH), which (200 mg) was stirred with a suspension of 60% NaH in THF at room temperature and then with 234 mg pyridine derivative III to give 330 mg amide IV. IV controlled 97% Pyricularia oryzae, 90% Rhizoctonia solani, and 100% Sphaerotheca fuliginea at 500 ppm.

http://www.cas.org/infopolicy.html

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=> s liu, C?/au
L4       24592 LIU, C?/AU

=> s guan, a?/au
L5          56 GUAN, A?/AU

=> s zhang, h?/au
L6       38000 ZHANG, H?/AU

=> s zhang, m?/au
L7       14910 ZHANG, M?/AU

=> s li, z?/au
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=> s li, M?/au
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=> s li, z?/au
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coumarine)
            572 BENZOPYRONE
            210 BENZOPYRONES
            699 BENZOPYRONE
                  (BENZOPYRONE OR BENZOPYRONES)
            111 COUMARINE
             37 COUMARINES
            145 COUMARINE
                  (COUMARINE OR COUMARINES)
L13           1 (L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12) AND (BEN
                ZOPYRONE OR COUMARINE)

=> d ibib abs tot

L13  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:        2005:429410  CAPLUS  Full-text
DOCUMENT NUMBER:         142:430138
TITLE:                   Preparation of benzopyrone derivatives as
                         pesticides and bactericides
INVENTOR(S):             Liu, Changling; Guan, Aiying;
                         Zhang, Hong; Zhang, Mingxing;
                         Li, Zhengming; Li, Miao; Li,
                         Lin; Li, Zhinian; Hou, Chunqing
PATENT ASSIGNEE(S):      Shenyang Research Institute of Chemical Industry,
                         Peop. Rep. China
SOURCE:                  PCT Int. Appl., 37 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                Chinese
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FAMILY ACC. NUM. COUNT: 1
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CN 1616448	A	20050518	CN 2003-10105079	20031111
EP 1683792	A1	20060726	EP 2004-797287	20041104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1823052	A	20060823	CN 2004-80020125	20041104
JP 2007510674	T	20070426	JP 2006-538636	20041104
US 2007037876	A1	20070215	US 2006-573529	20060324
PRIORITY APPLN. INFO.:			CN 2003-10105079 A	20031111
			WO 2004-CN1255 W	20041104

OTHER SOURCE(S): MARPAT 142:430138
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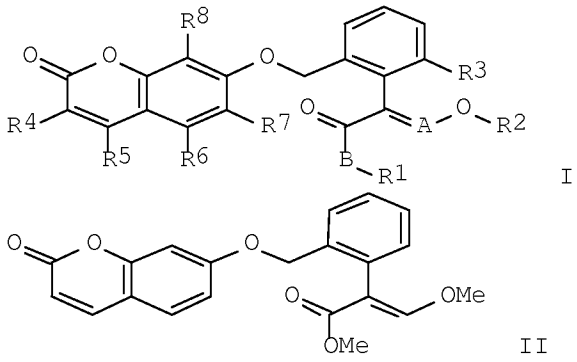

I

II

AB The title compds. I [wherein A = CH or N; B = O, S, NH, or alkylamino; R1 and R2 = independently H, alkyl, or haloalkyl; R3 = H, alkyl, haloalkyl, or alkoxy; R4-R8 = independently H, halo, CN, etc.] or isomers thereof are prepared as pesticides and/or bactericides. For example, the compound II was prepared from 7-hydroxybenzopyran-2-one and (E)-2-[2-(bromomethyl)phenyl]-3-methoxypropenoic acid Me ester (76.5%). I are suitable for prevention or cure of the following plant diseases: grape downy mildew, rice blast, tomato early blight, tomato late blight, wheat rust disease, wheat leaf spot, wheat powdery mildew, cucumber powdery mildew, cucumber downy mildew, cucumber botrytis, and so on. For example, II showed 100% effect on cucumber powdery mildew at 200 ppm.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS